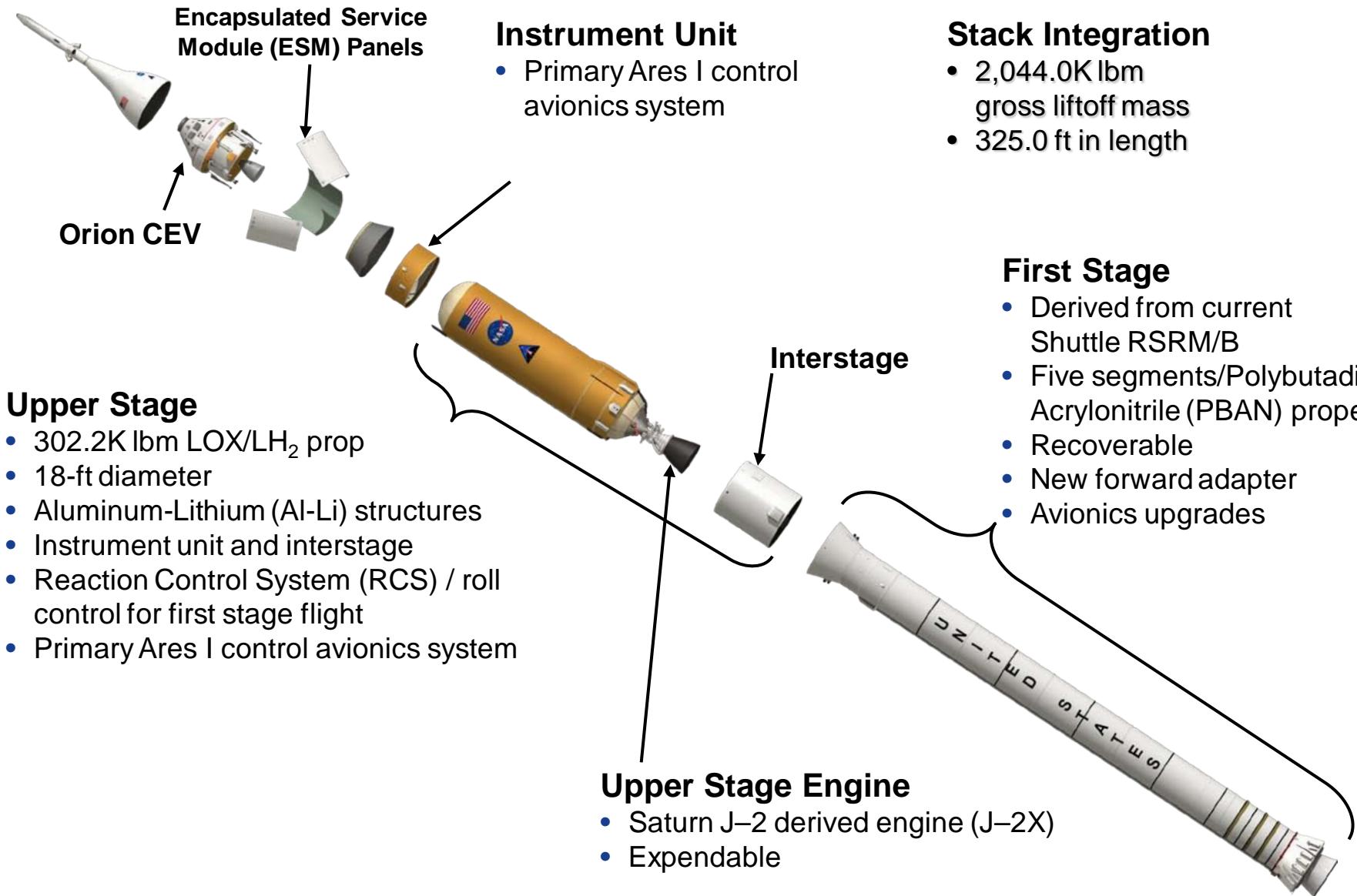
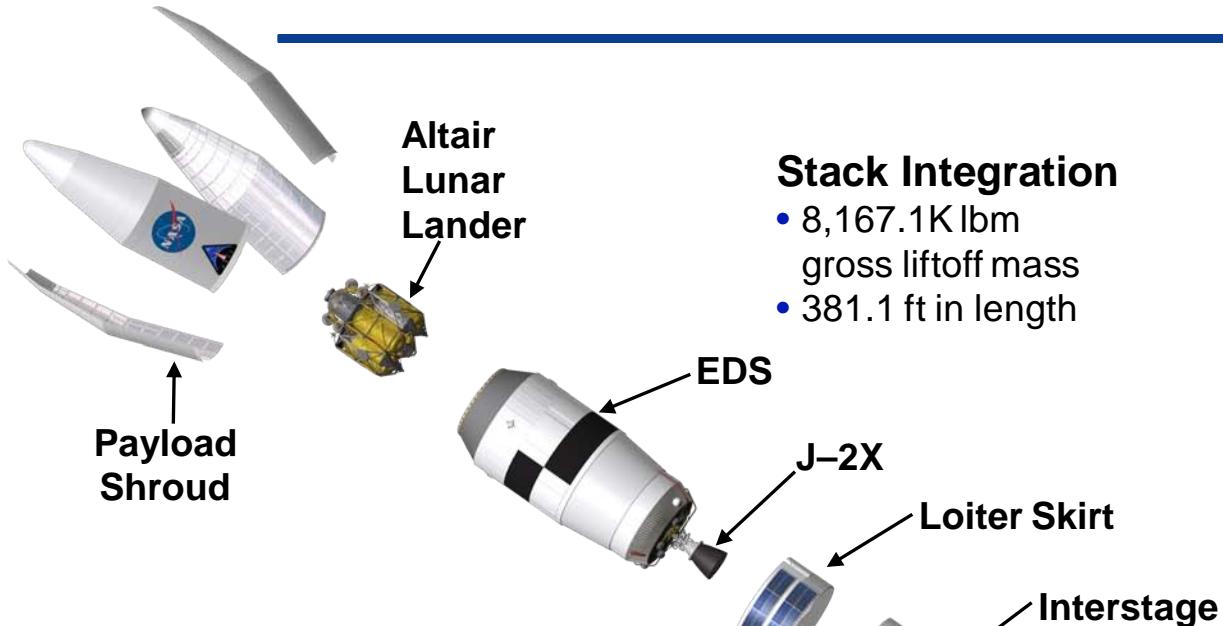


Ares I Rocket Elements



Ares V Heavy Cargo Launch Vehicle Elements



Earth Departure Stage (EDS)

- One Saturn-derived J-2X LOX/LH₂ engine (expendable)
- 33-ft diameter stage
- Aluminum-Lithium (Al-Li) tanks
- Composite structures, instrument unit and interstage
- Primary Ares V avionics system

Stack Integration

- 8,167.1K lbfm gross liftoff mass
- 381.1 ft in length

Solid Rocket Boosters

- Two recoverable 5.5-segment PBAN-fueled boosters (derived from current Ares I first stage)

Core Stage

- Six Delta IV-derived RS-68 LOX/LH₂ engines (expendable)
- 33-ft diameter stage
- Composite structures
- Al-Li tanks

